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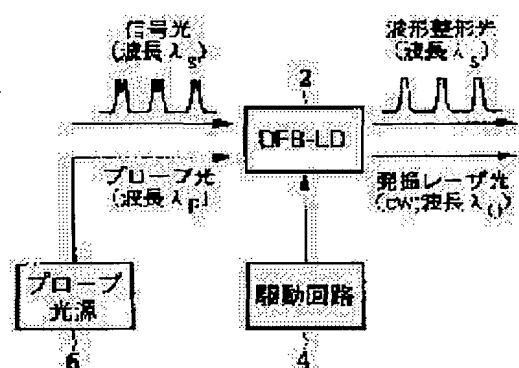
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(54) METHOD, DEVICE, AND SYSTEM FOR SHAPING WAVEFORM OF SIGNAL LIGHT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a new waveform shaping technology which does not rely upon the bit rate or pulse shape of signal light with respect to a method, device, and system for shaping the waveform of a signal light.

SOLUTION: A device for shaping waveform of signal light is provided with a distributed feedback(DFB) laser 2 having a blocking band that is defined as the range of wavelengths which can be oscillated from the laser 2, and a driving circuit 4 which supplies a driving current to the laser 2 so that the laser 2 may oscillate at a first wavelength contained in the blocking band. Signal light having a second wavelength which is not contained in the blocking band is inputted to the laser 2. When the signal light is provided with an optical pulse having a high level and a low level, the amplitude fluctuation of the signal light at the high level can be suppressed effectively by appropriately setting the power of the signal light.



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